In The Claims

Replace the pending claims with the correspondingly numbered claims below. Amended claims are indicated by parenthetical text.

Claims 33 and 34 are amended.

Add new claims 35-58.

- 33. (Amended) A method of screening substances for an ability to affect TRRE activity, comprising:
- a) incubating TNF receptor or cells expressing TNF receptor with the substance and with a polypeptide that causes TNF receptor to be cleaved in the absence of the substance;
 - b) measuring any TNF receptor cleaved; and
- c) correlating any increase or decrease of the receptor cleaved by the peptide with an ability of the substance to enhance or diminish TRRE activity.
- 34. (Amended) The screening method of claim 33, wherein the polypeptide contains SEQ. ID NOS: 147-149, 151, or 153-154, or fragment thereof which causes increased release of TNF receptor from human cells in which TNF receptor is expressed.
- 35. (New) The screening method of claim 33, wherein the polypeptide has at least one of the following properties:
- i) it comprises a sequence encoded in the longest open reading frame of SEQ. ID NOs: 1-10 or fragment thereof;
- ii) it is encoded by a polynucleotide that hybridizes under stringent conditions to a polynucleotide having a sequence selected from SEQ. ID NOs: 1-10;
- and wherein the polypeptide causes increased release of TNF receptor from human cells in which TNF receptor is expressed.
- 36. (New) The screening method of claim 33, wherein the polypeptide has been obtained by purifying TRRE from human cells that express it endogenously.

- 37. (New) The screening method of claim 33, wherein the polypeptide has been obtained by expressing a recombinant polynucleotide.
- 38. (New) The screening method of claim 33, wherein the polypeptide has metalloprotease activity.
- 39. (New) The screening method of claim 35, wherein the polynucleotide comprises a sequence selected from the longest open reading frame of SEQ. ID NOs: 1-10 or fragment thereof.
- 40. (New) The screening method of claim 35, wherein the polynucleotide hybridizes under stringent conditions to a polynucleotide having a sequence selected from SEQ. ID NOs: 1-10.
- 41. (New) The screening method of claim 35, wherein the polynucleotide comprises the sequence of the longest open reading frame of SEQ. ID NO:1 or fragment thereof
- 42. (New) The screening method of claim 35, wherein the polynucleotide comprises the sequence of the longest open reading frame of SEQ. ID NO:5 or fragment thereof
- 43. (New) The screening method of claim 35, wherein the polynucleotide comprises the sequence of the longest open reading frame of SEQ. ID NO:6 or fragment thereof
- 44. (New) The screening method of claim 35, wherein the polynucleotide comprises the sequence of the longest open reading frame of SEQ. ID NO:8 or fragment thereof
- 45. (New) The screening method of claim 35 wherein the polynucleotide comprises the sequence of the longest open reading frame of SEQ. ID NO:9 or fragment thereof
- 46. (New) The screening method of claim 35, wherein the polynucleotide comprises the sequence of the longest open reading frame of SEQ. ID NO:10 or fragment thereof

- 47. (New) The screening method of claim 35, wherein the polynucleotide hybridizes under stringent conditions to a polynucleotide having the sequence of SEQ. ID NO:1.
- 48. (New) The screening method of claim 35, wherein the polynucleotide hybridizes under stringent conditions to a polynucleotide having the sequence of SEQ. ID NO:5.
- 49. (New) The screening method of claim 35, wherein the polynucleotide hybridizes under stringent conditions to a polynucleotide having the sequence of SEQ. ID NO:6.
- 50. (New) The screening method of claim 35, wherein the polynucleotide hybridizes under stringent conditions to a polynucleotide having the sequence of SEQ. ID NO:8.
- 51. (New) The screening method of claim 35, wherein the polynucleotide hybridizes under stringent conditions to a polynucleotide having the sequence of SEQ. ID NO:9.
- 52. (New) The screening method of claim 35, wherein the polynucleotide hybridizes under stringent conditions to a polynucleotide having the sequence of SEQ. ID NO:10.
- 53. (New) The screening method of claim 33, wherein the substance is incubated with p55 TNF receptor in step a).
- 54. (New) The screening method of claim 33, wherein the substance is incubated with p75 TNF receptor in step a).
- 55. (New) The screening method of claim 33, wherein the substance is incubated with a cell expressing p55 TNF receptor in step a).
- 56. (New) The screening method of claim 33, wherein the substance is incubated with a cell expressing p75 TNF receptor in step a).

57. (New) The screening method of claim 33, wherein the measuring of TNF-R cleaved in step b) comprises measuring binding capacity for TNF on the surface of the treated cell.

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58. (New) The screening method of claim 33, wherein the measuring of TNF-R cleaved in step b) comprises measuring the concentration of soluble TNF-R in culture medium from the treated cell.